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WHAT IS CLAIMED IS:

1. A method of introducing a substance into plant tissue whereby the substance is introduced into the tissue of a plant having branches through the branch,

5 wherein the substance is absorbed through conductive tissue of the branch while inhibiting means is carried out in order to inhibit transpiration through a leaf on the branch or to inhibit water requirement by the leaf.

10 2. The method of claim 1, wherein the inhibiting means is removal of at least one of the leaves.

3. The method of claim 1, wherein the inhibiting means is shading of at least one of the leaves.

15 4. The method of claim 1, wherein the inhibiting means is closure of stomata of the leaves.

5. The method of claim 4, wherein the closure is accomplished by introducing into the tissue of the leaves, a chemical which closes the stomata.

20 6. The method of claim 1, wherein the conductive tissue is exposed by removal of the tissue of the branch, and the substance is introduced through the exposed conductive tissue.

7. The method of claim 1, wherein the conductive tissue consists of vessels.

25 8. The method of claim 1, wherein the substance is at least one substance selected from the group

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consisting of nutrients, plant hormones, chemicals,
nucleic acids and useful microbes.

9. The method of claim 1, wherein the plant is a
dicotyledonous plant.

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